بيان بالأبحاث العلمية للباحثين من أعضاء هيئة التدريس ومن في حكمهم بوحدة تقنيات النانو للعام ٢٠٢٠

م	عنوان البحث	سنة النشر	اسم المجلة ومعامل تأثيرها	Q	DOI
Year 2019					
1	A study of gamma attenuation property of UHMWPE/Bi2O3 nanocomposites	2019	Chemical physics IF=1.822	Q3	https://doi.org/10.1016/j.chemphys.2019.04.013
2	AC susceptibility, DC magnetization and superconducting properties of tungsten oxide nanowires added YBa2Cu3Oy	2019	Ceramics International IF=3.450	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.ceramint.2019.07.196
3	Analysis of in situ thin films epitaxy by reflectance spectroscopy: Effect of growth parameters	2019	Superlattices and Microstructures IF=2.4	Q2	https://doi.org/10.1016/j.spmi.2019.05.026
4	Bi2O3-B2O3-ZnO-BaO-Li2O glass system for gamma ray shielding applications	2020	Optik IF=1.191	Q3	https://doi.org/10.1016/j.ijleo.2019.1635
5	Borate multicomponent of bismuth rich glasses for gamma radiation shielding application	2019	Radiation Physics and Chemistry IF=1.984	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.radphyschem.2019.04.005
6	Catalyst-Free Vertical ZnO-Nanotube Array Grown on p-GaN for UV-Light-Emitting Devices	2019	ACS applied materials & interfaces IF=8.456	Q1	https://doi.org/10.1021/acsami.9b06195
7	Characterization of thymoquinone/hydroxypropyl-β-cyclodextrin inclusion complex: Application to anti-allergy properties	2019	European Journal of Pharmaceutical Sciences IF=3.532	Q2	https://doi.org/10.1016/j.ejps.2019.03.015
8	Comparative Study of the Effect of Magnetic Nanoparticle CoFe2O4 on Fluctuation-Induced Conductivity of Y-123 and Y-358 Superconductors	2019	Journal of Superconductivity and Novel Magnetism IF=1.130	Q3	https://doi.org/10.1007/s10948-018-4746-0
9	Effect of co-doping of lithium on the dosimetric properties of dysprosium-doped sodium borate glass system	2019	Physica B: Condensed Matter IF=1.874	Q3	https://doi.org/10.1016/j.physb.2019.01.046
10	Effect of grain size on radon emanation coefficient, surface and mass exhalation rates and the correlation coefficient between them in different masses of soil and phosphate fertilizer	2019	Radiochim. Acta IF=1.339	Q2	https://doi.org/10.1515/ract-2018-3027
11	Effect of temperature on electronic and electrical behavior of InGaN double hetero-junction p-i-n solar cells	2019	Journal of Materials Science: Materials in Electronics IF=2.195	Q2	https://doi.org/10.1007/s10854-019-00714-5

12	Effects of ZnO/Mn Concentration on the Micro-structure and Optical Properties of ZnO/Mn–TiO2 Nano-composite for Applications in Photo-Catalysis	2019	Journal of Inorganic and Organo-metallic Polymers and Materials IF=1.637	Q2	https://doi.org/10.1007/s10904-018-0979-4
13	Electromodulation of the Negative Differential Resistance in an AlGaAs/GaAs Resonant Tunneling Diode	2019	Journal of the Korean Physical Society IF=0.630	Q4	https://link.springer.com/article/10.3938/jkps.74.36
14	Engineering of the band gap and optical properties of InxGa1−x(As/Sb) via across composition alloying for solar cell applications using density functional theory-based approaches	2019	Physica Scripta IF=2.151	Q2	https://doi.org/10.1088/1402-4896/ab2548
15	Excess conductivity and AC susceptibility studies of Y-123 superconductor added with TiO2nano-wires	2019	Materials Chemistry and Physics IF=2.781	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.matchemphys.2019.121721
16	Exploring the origin of p-type half-metallic ferromagnetism in beryllium doped alkali based perovskites	2019	Solid State Communications IF=1.433	Q3	https://doi.org/10.1016/j.ssc.2019.113654
17	Flux pinning properties of YBCO added by WO3 nanoparticles	2019	Journal of Alloys and Compounds IF=4.175	Q2	https://doi-org.library.iau.edu.sa/10.1016/j.jallcom.2019.151884
18	Half-metallic ferromagnetism and optical behavior in alkaline-earth metals based Beryllium perovskites: DFT calculations	2019	Chemical Physics Letters IF=1.901	Q2	https://doi.org/10.1016/j.cplett.2019.05.011
19	Heat treatment effect on the microstructural, hardness and thermal properties of XC48 steel	2019	Journal of Thermal Analysis and Calorimetry IF=2.44	Q2	https://doi.org/10.1007/s10973-019-08536-7(0123456789().,-volV)(0123456789().
20	Impact of Dy2O3 nanoparticles additions on the properties of porous YBCO ceramics	2019	Journal of Materials Science: Materials in Electronics, IF=2.195	Q2	https://doi.org/10.1007/s10854-019-02106-1
21	Improved structural and magnetic properties of Polypyrrole substituted spinel ferrites composites	2019	Materials Science and Engineering: B IF=3.507	Q2	https://doi.org/10.1016/j.mseb.2019.04.022
22	Improvement of flux pinning ability by tungsten oxide nanoparticles added in YBa2Cu3Oy superconductor	2019	Ceramics International IF=3.450	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.ceramint.2018.12.176
23	Influence of WO3 nanowires on structural, morphological and flux pinning ability of YBa2Cu3Oy superconductor	2019	Ceramics International IF=3.450	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.ceramint.2018.10.201

24	Investigation of gamma ray attenuation features of bismuth oxide nano powder reinforced high-density polyethylene matrix composites	2020	Radiation Physics and Chemistry IF=1.984	Q1	https://doi.org/10.1016/j.radphyschem.2019.108537
25	Investigation of natural radioactivity levels and evaluation of radiation hazards in residential-area soil near a RasTanura Refinery, Saudi Arbia	2019	Polish Journal of Environmental Study IF=1.186	Q2	DOI: 10.15244/pjoes/83611
26	Investigation of the impact of nano-sized wires and particles TiO2 on Y-123 superconductor performance	2019	Journal of Alloys and Compounds, IF=4.175	Q2	https://doi-org.library.iau.edu.sa/10.1016/j.jallcom.2018.12.062
27	Magneto-resistivity and magnetization investigations of YBCO superconductor added by nano-wires and nano-particles of titanium oxide	2019	Journal of Materials Science: Materials in Electronics IF=2.195	Q2	https://doi.org/10.1007/s10854-019-01205-3
28	Modeling of the Spin Currents in Resonant Tunneling Diodes Based on Ferromagnetic Semiconductor Spacers	2019	Journal of Superconductivity and Novel Magnetism IF=1.130	Q3	https://link.springer.com/article/10.1007/s10948-018-4880-8
29	Non-enzymatic glucose sensor with electrodeposited silver/carbon nanotubes composite electrode	2019	Bioscience IF=1. 7	Q3	https://doi.org/10.1042/BSR20181983
30	Novel inhibitors against wild-type and mutated HCV NS3 serineprotease: an in silico study	2019	Virus Disease IF=0.364	Q4	https://doi.org/10.1007/s13337-019-00516-7
31	Numerical Simulation of the Effects of Electric and Magnetic Fields on the Optical Absorption in a Parabolic Quantum Well	2019	Journal of the Korean Physical Society IF=0.630	Q4	https://doi.org/10.3938/jkps.75.806
32	Optoelectronic and thermoelectric behavior of XIn2Te4(X□=□Mg, Zn and Cd) for energy harvesting application; DFT approach	2019	Physica Scripta IF=2.151	Q2	https://doi.org/10.1088/1402-4896/ab154f
33	Opto-electronic and thermoelectric properties of MgIn2X4(X¼S, Se) spinels via ab-initio calculations	2019	J. Molecular Graphics and Modelling IF=1.863	Q2	https://doi.org/10.1016/j.jmgm.2019.01.010
34	Optoelectronic properties of new direct bandgap polymorphs of singlelayered Germanium sulfide	2019	Ceramic International IF=3.450	Q1	https://doi.org/10.1016/j.ceramint.2019.06.028
35	Physical, structural, optical and photons attenuation attributes of lithium-magnesium-borate glasses: role of Tm2O3 doping	2019	Optik IF=1.191	Q3	https://doi.org/10.1016/j.ijleo.2019.01.11
36	Preparation and photoluminescence of NiFe2O4 nanoparticles	2019	Journal of materials Science: Materials in Electronics IF=2.195	Q2	https://doi.org/10.1007/s10854-019-01914-9
37	Preparation of iron oxide nanoparticles doped with divalent metal: Application for heavy metal removal from waste water	2019	AIP Publishing Conference IF=proceedings	Q2	https://doi.org/10.1063/1.5117040

38	Removal of Pb(II) Metal Ions from Aqueous Solutions Using Chitosan-Vanillin Derivatives of Chelating Polymers	2019	Polish Journal of Environmental Studies IF=1.186		https://doi.org/10.15244/pjoes/89545
39	Role of sonication time on thermal behaviour and dynamic mechanical analysis of NiZn ferrite incorporated PLA/LNR nanocomposite	2019	Bulletin of Materials Science IF=1.264	Q4	https://doi.org/10.1007/s12034-019-1782-8
40	Simultaneous effect of impurities, hydrostatic pressure, and applied potential on the optical absorptions in a GaAs field-effect transistor	2019	Results in Physics IF=3.043	Q1	https://www.sciencedirect.com/science/article/pii/S2211379719306862
41	Sorption of Cobalt (II) Ions from Aqueous Solutions Using Chemically Modified Chitosan	2019	Global NEST Journal IF=0.869	Q4	https://doi.org/10.30955/gnj.002804
42	Structural, optical and electrical properties of the Zn doped MoO3 deposited on porous silicon	2019	Sensors and Actuators A: Physical IF=2.739	Q2	https://doi-org.library.iau.edu.sa/10.1016/j.sna.2019.111537
43	Structural, optical and photocatalytic studies of Zn doped MoO3 nanobelts	2019	Chemical Physics IF=1.822	Q2	https://doi.org/10.1016/j.chemphys.2019.110410
44	Structural, optical and thermal properties of V-doped GaN thin films grown by MOCVD technique	2019	Thermochimica Acta IF=2.57	Q2	https://doi.org/10.1016/j.tca.2019.178428
45	Structural, optical, and shielding investigations of TeO2–GeO2–ZnO–Li2O–Bi2O3 glass system for radiation protection applications	2019	Applied physics A IF=1.784	Q3	https://doi.org/10.1007/s00339-019-2709-3
46	Study of the growth time effect on the structural, morphological and electrical characteristics of ZnO/p-Si heterojunction diodes grown by sol-gel assisted chemical bath deposition method	2019	Journal of Alloys and Compounds IF=4.175	Q2	https://doi-org.library.iau.edu.sa/10.1016/j.jallcom.2018.08.280
47	Synthesis and Characterization of SnO2-TiO2 Nanocomposites Photocatalysts	2019	Current Nanoscience IF=1.306	Q3	https://doi.org/10.2174/1573413716466180927110912
48	Tailoring of Bandgap to Tune the Optical Properties of Ga1−xAlxY (Y = As, Sb) for Solar Cell Applications by Density Functional Theory Approach	2019	Z. Naturforsch IF=1.15	Q2	https://doi.org/10.1515/zna-2019-0176
49	Terahertz intersubband transitions in GaAsBi/AlGaAs single quantum well heterostructure	2019	Superlattices and Microstructures IF=2.4	Q2	https://doi.org/10.1016/j.spmi.2019.106299
50	The effect of VCSEL intrinsic dynamics on polarization bistability	2019	Results in Physics IF=3.043	Q1	https://doi.org/10.1016/j.rinp.2019.102379
51	The first-principle study of mechanical, optical and thermoelectric properties of SnZrO3and SnHfO3for renewable energy applications	2019	Solid State Communications IF=1.433	Q3	https://doi.org/10.1016/j.ssc.2019.01.011
52	Theoretical prediction of optoelectronic and thermoelectric properties RbXO2(X = Al, Ga, In) for renewable energy applications	2019	Chemical Physics Letters IF=1.901	Q2	https://doi.org/10.1016/j.cplett.2019.04.084

53	Tuning the linear and nonlinear optical properties in double and triple doped GaAs semiconductor: Impact of electric and magnetic fields	2019	Superlattices and Microstructures IF=2.385	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0749603619313497
54	Uranium and trace metals contamination in topsoil from different zones around industrial city, Al Jubail, Saudi Arabia	2019	Archives of Environmental Contamination and Toxicology IF=2.135	Q2	https://doi.org/10.1007/s00244-019-00642-9
55	Validation of Messaâdi equation on viscosity-temperature dependence for some ternary liquid mixtures by statistical correlation analysis	2019	Physics and Chemistry of Liquids IF=1.37	Q2	https://doi.org/10.1080/00319104.2019.1625048
Year 2020					
56	Ab initio study of electronic, optical and thermoelectric character of intermetallic compounds XGa3 (X = Fe, Ru, Os)	2020	Optical and quantum electronics IF = 1.7	Q3	https://doi.org/10.1007/s11082-020-02332-6
57	AC susceptibility investigation of YBCO superconductor added by carbon nanotubes	2020	Journal of Alloys and Compounds Impact factor: IF=4.175	Q1	https://doi.org/10.1016/j.jallcom.2019.152150
58	Activity concentrations of 226Ra, 232Th, 40K and 238U in detergent powders and their potential radiation hazards	2020	Journal of Radiation Research and Applied Sciences IF=2.963	Q2	doi.org/10.1080/16878507.2020.1750848
59	Bi2O3-B2O3-ZnO-BaO-Li2O glass system for gamma ray shielding applications	2020	Optik IF=1.91	Q2	https://doi.org/10.1016/j.ijleo.2019.163525
60	Chitosan-Based Materials for the Removal of Nickel Ions from Aqueous Solutions	2020	Russian Journal of Physical Chemistry A IF=0.58	Q3	https://doi.org/10.1134/S0036024420040032
61	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Luminescence IF=1.46	Q2	10.1002/bio.3761
62	Effects of strontium - erbium co-doping on the structural properties of hydroxyapatite: An Experimental and theoretical study	2020	Ceramics International IF=3.45	Q1	https://doi.org/10.1016/j.ceramint.2020.03.194
63	First principle analysis of electronic, optical and thermoelectric characteristics of XBiO3 (X = Al, Ga, In) perovskites	2020	Opto-electronic Review IF = 1.5	Q3	https://doi.org/10.24425/opelre.2020.132497 1896-3757
64	First-principle investigation of ferromagnetism and thermoelectric characteristics of MgCr2X4 (X = S, Se) spinels	2020	Journal of Solid State Chemistry IF = 2.2	Q2	https://doi.org/10.1016/j.jssc.2020.121261
65	First-principles calculation to investigate half metallic ferromagnetism and thermoelectric properties of Ca0.75Ti0.25X (X = S, Se) alloys	2020	Chemical Physics IF = 1.82	Q2	https://doi.org/10.1016/j.chemphys.2020.110690

66	First-principles study of magnetic and thermoelectric properties of SnFe2O4 and SnCo2O4 spinels	2020	Journal of Solid State Chemistry IF = 2.2	Q2	https://doi.org/10.1016/j.jssc.2020.121279
67	Hyperbolic Correlation between the Viscosity Arrhenius Parameters at Liquid Phase of Some Pure Newtonian Fluids and Their Normal Boiling Temperature	2020	Russian Journal of Physical Chemistry A (IF= 0.58)	Q3	https://doi.org/10.1134/S0036024420010239
68	Investigation of gamma ray attenuation features of bismuth oxide nano powder reinforced high-density polyethylene matrix composites	2020	Radiation Physics and Chemistry IF=1.984	Q1	https://doi.org/10.1016/j.radphyschem.2019.108537
69	Investigation of Molecular Interaction in Benzene + Cyanex 923 Binary Mixtures at 298.15 K with Reduced Redlich–Kister Functions	2020	Russian Journal of Physical Chemistry A IF 0.58	Q3	https://doi.org/10.1038/s41598-019-56805-0
70	Modeling of the irradiation effect on some physicochemical properties of metoprolol tartrate for safe medical uses	2020	Scientific Reports IF= 4.5	Q1	https://doi.org/10.1038/s41598-019-56805-0
71	MoO3 reinforced Ultra high molecular weight PE for neutrons shielding applications	2020	Radiation Physics and Chemistry IF=1.984	Q1	https://doi.org/10.1016/j.radphyschem.2020.108852
72	Optoelectronic properties of PbSe monolayers from first principles	2020	Applied Surface Science IF = 5.15	Q1	https://doi.org/10.1016/j.apsusc.2020.146521
73	Physical, optical and shielding features of Li2O–B2O3–MgO–Er2O3 glasses co-doped of Sm2O3	2020	Applied physics A IF=1.82	Q2	https://doi.org/10.1007/s00339-019-3262-9
74	Physical, Structural and Shielding properties of Cadmium Bismuth Borate-Based glasses	2020	Journal of Applied Physics IF=2.328	Q2	https://doi.org/10.1063/1.5143116
75	Physical, structural, optical, and radiation shielding properties of B2O3- 20Bi2O3- 20Na2O2- Sb2O3 glasses: Role of Sb2O3	2020	Journal of non-crystalline	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120130
76	Probing of mechanical, optical and thermoelectric characteristics of double perovskites Cs2GeCl/Br6 by DFT method	2020	Materials Science in Semiconductor Processing IF=2.72	Q2	https://doi.org/10.1016/j.mssp.2020.105009
77	Probing the electronic structure and magnetism in Ni doped ZnTe: A DFT modeling and experiment	2020	Journal of Alloys and Compounds IF = 4.2	Q1	https://doi.org/10.1016/j.jallcom.2020.155176
78	Radiation shielding properties of bismuth borate glasses doped with different concentrations of cadmium oxides	2020	Ceramics International IF=3.45	Q1	https://doi.org/10.1016/j.ceramint.2020.02.039
79	Radiation Shielding Properties of Nd0.6Sr0.4Mn1−yNiyO3 Substitute with Different Concentrations of Nickle	2020	Radiation Physics and Chemistry IF=1.984	Q1	https://doi.org/10.1016/j.radphyschem.2020.108920
80	Spin-Dependent Tunneling of Holes in Heterostructures Based on GaMnAs Semiconductor: Effects of Temperature and Quantum Size	2020	Journal of Superconductivity and Novel Magnetism IF= 1.13	Q3	https://link.springer.com/article/10.1007/s10948-020-05463-9

81	Synthesis and study of physicochemical properties of relatively high birefringence liquid crystals:Tolane-type with symmetric alkoxy side groups	2020	Journal of Molecular Liquids IF=4.561	Q1	https://doi.org/10.1016/j.molliq.2020.113205
82	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of Non-Crystalline Solids IF=2.7	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
83	Theoretical and experimental validation gamma shielding properties of B2O3-ZnO-MgO-Bi2O3 glass system	2020	Materials Chemistry and Physics IF = 2.781	Q2	https://doi.org/10.1016/j.matchemphys.2019.122504
84	Theoretical investigations of optoelectronic and thermoelectric properties of the XIn2O4 (X = Mg, Zn, Cd) spinel oxides	2020	Journal of Physics and Chemistry of Solids IF = 2.78	Q2	https://doi.org/10.1016/j.jpcs.2020.109481
85	Theoretical study of electronic properties of resonant tunneling diodes based on double and triple AlGaAs barriers	2020	Results in Physics IF=3.04	Q2	https://doi.org/10.1016/j.rinp.2020.103089
86	Comparative Study of Thermal Fluctuation Induced Conductivity in YBa2Cu3O7-d Containing Nano-Zn0.95Mn0.05O and Nano-Al2O3 Particles	2020	Solid State Sciences IF: 2.155	Q2	https://doi.org/10.1016/j.solidstatesciences.2020.106264
87	Use of density functional theory to investigate the optical and magnetic behaviours of Ge1-xMnxTe half-metallic ferromagnets	2020	Material Research Bulletin IF = 3.5	Q1	https://doi.org/10.1016/j.materresbull.2019.110706
88	Validation of Messaâdi equation on viscosity-temperature dependence for some ternary liquid mixtures by statistical correlation analysis	2020	Physics and Chemistry of Liquids IF =1.52	Q2	https://doi.org/10.1080/00319104.2019.1625048
89	Effects of Terbium Doping on Structural, Optical and Photocatalytic Properties of ZnO Nanopowder Prepared by Solid-State Reaction	2020	Journal of Inorganic and Organometallic Polymers and Materials IF=1.670	Q2	https://doi.org/10.1007/s10904-020-01761-w
90	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120360
91	Structural and optical characteristics of pure and 5% RE (Tb, Y and Eu) doped ZnO	2020	Nano-Structures & Nano-Objects	Q2	https://doi.org/10.1016/j.nanoso.2020.100551
92	Effect of Yttrium Substitution on Microstructural, Optical, and Photocatalytic Properties of ZnO Nanostructures	2020	Journal of Electronic Materials IF= 1.676	Q2	https://doi.org/10.1007/s11664-020-08274-9
93	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
94	Probing of mechanical behaviour, quantum mechanism of spin exchange and magnetism of SnV2O4 and SnCr2O4 spinel oxides by DFT	2020	philosophical magazine IF=1.632	Q2	https://doi.org/10.1080/14786435.2020.1781277

95	Electronic and thermoelectric properties of alkali metal-based perovskites CsYbF3 and RbYbF3	2020	Chinese Physics B IF = 1.45	Q3	https://iopscience.iop.org/article/10.1088/1674-1056/ab9de3/meta
96	Probing of mechanical, optical and thermoelectric characteristics of double perovskites Cs2GeCl/Br6 by DFT method	2020	Materials Science in Semiconductor Processing IF=2.72	Q2	https://doi.org/10.1016/j.mssp.2020.105009
97	Photocatalytic Activity, Microstructures and Luminescent Study of Ti-ZS: M Nano-composites Materials	2020	Journal of Inorganic and Organometallic Polymers and Materials IF=1.67	Q2	https://doi.org/10.1007/s10904-020-01598-3
98	Magnetic behavior of Ga doped yttrium iron garnet ferrite thin films deposited by sol-gel technique	2020	Ceramics International IF= 3.64	Q1	https://doi.org/10.1016/j.ceramint.2020.07.217
99	Evolution of structure and improvement in dielectric properties of praseodymium substituted YFeO3 nanomaterials synthesized via a sol-gel auto-combustion method	2020	Ceramics International IF= 3.64	Q1	https://doi.org/10.1016/j.ceramint.2020.11.005 .07.217
100	The study of optical and thermoelectric properties of lead-free variant iodes (K/Rb) 2TiI6; Renewable energy	2020	Journal of Materials Research and Technology IF = 5.289	Q1	https://doi.org/10.1016/j.jmrt.2020.09.046
101	Investigations on the efficiency variation of zinc and gallium Co-doped TiO2 based dye sensitized solar cells	2020	Ceramics International IF= 3.64	Q1	https://doi.org/10.1016/j.ceramint.2020.06.268
102	Probing of mechanical behaviour, quantum mechanism of spin exchange and magnetism of SnV2O4 and SnCr2O4 spinel oxides by DFT	2020	philosophical magazine IF=1.632	Q2	https://doi.org/10.1080/14786435.2020.1781277
103	Ultralow Lattice Thermal Conductivity in Double Perovskite Cs2PtI6: A Promising Thermoelectric Material	2020	ACS Applied Energy Materials		https://doi.org/10.1021/acsaem.0c02236
104	Probing of Optoelectronic and Transport Properties of Zinc Based ZnY2X4 (X= S, Se) Spinels for Renewable Energy	2020	ECS Journal of Solid State Science and Technology IF=1.55	Q3	https://iopscience.iop.org/article/10.1149/2162-8777/abbb70/meta
105	Spinel-type Na2MoO4 and Na2WO4 as promising optoelectronic materials: first-principle DFT calculations	2020	Chemical Physics IF = 1.87	Q3	https://doi.org/10.1016/j.chemphys.2020.110902
106	Exploring the potential of lead-chalcogenide monolayers for room-temperature thermoelectric applications	2020	Ceramic International IF = 3.5	Q1	https://doi.org/10.1016/j.ceramint.2020.09.183
107	Role of 5d Orbital of Re in Ferromagnetism and Thermoelectric Characteristics of Cs2ReCl/Br6 Double Perovskites: A Density Functional Theory Study	2020	The European Physical Journal Plus IF = 2.6	Q2	10.1140/epjp/s13360-020-00743-8

108	Optoelectronic and thermoelectric properties of double perovskite Rb2PtX6 (X = Cl, Br) for energy harvesting: First-principles investigations	2020	Journal of Physics and Chemistry of Solids IF = 2.78	Q2	https://doi.org/10.1016/j.jpcs.2020.109665
109	First principle study of structural, electronic, ferromagnetic, mechanical and thermoelectric properties of ZnMn2X4 (X= S and Se) Spinels	2020	Physica Scripta IF = 2.15	Q2	https://iopscience.iop.org/article/10.1088/1402-4896/abb20b/meta
110	Analysis of optoelectronic and thermoelectric properties of magnesium based MgSc2X4 (X =S, Se) Spinels for solar cell and energy storage devices applications	2020	Ceramics International IF = 3.5	Q1	https://doi.org/10.1016/j.ceramint.2020.07.133
111	Probing of mechanical behavior, quantum mechanism of spin exchange and magnetism of SnV2O4 and SnCr2O4 spinel oxides by DFT	2020	Journal of Philosophical Magzine IF = 1.89	Q2	https://doi.org/10.1080/14786435.2020.1781277
112	Electronic and thermoelectric properties of alkali metal-based perovskites CsYbF3 and RbYbF3	2020	Chinese Physics B IF = 1.45	Q3	https://iopscience.iop.org/article/10.1088/1674-1056/ab9de3/meta
113	Theoretical investigations of optoelectronic and thermoelectric properties of the XIn2O4 (X = Mg, Zn, Cd) spinel oxides	2020	Journal of Physics and Chemistry of Solids IF = 2.78	Q2	https://doi.org/10.1016/j.jpcs.2020.109481
114	Optoelectronic properties of PbSe monolayers from first principles	2020	Applied Surface Science IF = 5.15	Q1	https://doi.org/10.1016/j.apsusc.2020.146521
115	Use of density functional theory to investigate the optical and magnetic behaviours of Ge1-xMnxTe half-metallic ferromagnets	2020	Material Research Bulletin IF = 3.5	Q1	https://doi.org/10.1016/j.materresbull.2019.110706
116	First-principle investigation of ferromagnetism and thermoelectric characteristics of MgCr2X4 (X = S, Se) spinels	2020	Journal of Solid State Chemistry IF = 2.2	Q2	https://doi.org/10.1016/j.jssc.2020.121261
117	Probing the electronic structure and magnetism in Ni doped ZnTe: A DFT modeling and experiment	2020	Journal of Alloys and Compounds IF = 4.2	Q1	https://doi.org/10.1016/j.jallcom.2020.155176
118	Ab initio study of electronic, optical and thermoelectric character of intermetallic compounds XGa3 (X = Fe, Ru, Os)	2020	Optical and quantum electronics IF = 1.7	Q3	https://doi.org/10.1007/s11082-020-02332-6
119	First-principles calculation to investigate half metallic ferromagnetism and thermoelectric properties of Ca0.75Ti0.25X (X = S, Se) alloys	2020	Chemical Physics IF = 1.82	Q2	https://doi.org/10.1016/j.chemphys.2020.110690
120	First-principles study of magnetic and thermoelectric properties of SnFe2O4 and SnCo2O4 spinels	2020	Journal of Solid State Chemistry IF = 2.2	Q2	https://doi.org/10.1016/j.jssc.2020.121279
121	First principle analysis of electronic, optical and thermoelectric characteristics of XBiO3 (X= Al, Ga, In) perovskites	2020	Opto-electronic Review IF = 1.5	Q2	https://doi.org/10.24425/opelre.2020.132497

122	Physical properties of lead-free double perovskites A2SnI6 (A= Cs, Rb) using ab-initio calculations for solar cell applications	2020	Materials Science in Semiconductor Processing IF=3.085	Q2	https://doi.org/10.1016/j.mssp.2020.105313
123	Probing of mechanical, optical and thermoelectric characteristics of double perovskites Cs2GeCl/Br6 by DFT method	2020	Journal of Material Science and Semiconducting process IF = 2.9	Q2	https://doi.org/10.1016/j.mssp.2020.105009
124	Effects of strontium - erbium co-doping on the structural properties of hydroxyapatite: An Experimental and theoretical study	2020	Ceramics International- IF=3.45		https://doi.org/10.1016/j.ceramint.2020.03.194
125	Crystallinity improvement of Co_3O_4 by adding thiourea		Düzce University Journal of Science & Technology e-ISSN 2148-2446		10.29130/dubited.654169
126	Synthesis and Structural Characterization of Y-doped Pyramidal ZnO Powders		Düzce University Journal of Science & Technology e-ISSN 2148-2446		10.29130/dubited.655244
127	A comprehensive ionizing radiation shielding study of FexSe0. 5Te0. 5 alloys with various iron concentrations		Journal of alloys and compounds IF=4.650	Q1	https://doi.org/10.1016/j.jallcom.2020.155668
128	Physical, structural, optical and Gamma-ray shielding properties of Na2O-CdO-Bi2O3-B2O3 glasses		International Journal of Applied Glass Science IF=1.917	Q1	https://doi.org/10.1111/ijag.15859
129	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of non-crystalline Solid IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
130	Physical, optical and shielding features of Li2O–B2O3–MgO–Er2O3 glasses co-doped of Sm2O3	2020		Q2	https://doi.org/10.1007/s00339-019-3262-9
131	Radiation Shielding Properties of Nd0.6Sr0.4Mn1−yNiyO3 Substitute with Different Concentrations of Nickle	2020	Applied physics A IF=1.810	Q1	https://doi.org/10.1016/j.radphyschem.2020.108920
132	Radiation shielding properties of bismuth borate glasses doped with different concentrations of cadmium oxides	2020	Radiation Physics and Chemistry IF=٢,٢٦٢	Q1	https://doi.org/10.1016/j.ceramint.2020.02.039
133	Physical, Structural and Shielding properties of Cadmium Bismuth Borate-Based glasses	2020	Ceramics International IF= 3.٨٣٠	Q2	https://doi.org/10.1063/1.5143116
134	MoO3 reinforced Ultra high molecular weight PE for neutrons shielding applications	2020	Journal of Applied Physics IF=2.328	Q1	https://doi.org/10.1016/j.radphyschem.2020.108852
135	Theoretical and experimental validation gamma shielding properties of B2O3-ZnO-MgO-Bi2O3 glass system	2020	Radiation Physics and Chemistry IF=2.226	Q2	https://doi.org/10.1016/j.matchemphys.2019.122504

136	Bi2O3-B2O3-ZnO-BaO-Li2O glass system for gamma ray shielding applications	2020	Materials Chemistry and Physics IF=3.408	Q2	https://doi.org/10.1016/j.ijleo.2019.163525
137	Investigation of gamma ray attenuation features of bismuth oxide nano powder reinforced high-density polyethylene matrix composites	2020	Optik IF= 2.187	Q1	https://doi.org/10.1016/j.radphyschem.2019.108537
138	Physical, structural, optical, and radiation shielding properties of B2O3- 20Bi2O3- 20Na2O2- Sb2O3 glasses: Role of Sb2O3	2020	Radiation Physics and Chemistry IF=2.226	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120130
139	Germanate oxide impacts on the optical and gamma radiation shielding properties of TeO2-ZnO-Li2O glass system	2020	Journal of Non-Crystalline Solids IF= 2.929	Q1	tps://doi-org.library.iau.edu.sa/10.1016/j.jnoncrysol.2020.120272
140	Physical, structural, optical and gamma radiation attenuation properties of germanate-tellurite glasses for shielding applications	2020	Journal of Non-Crystalline Solids IF= 2.929	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.jnoncrysol.2020.120250
141	Novel tellurite glass (60-x)TeO2–10GeO2 - 20ZnO–10BaO - xBi2O3 for radiation shielding	2020	Journal of Alloys and Compounds IF=4.650	Q1	https://doi-org.library.iau.edu.sa/10.1016/j.jallcom.2020.155668
142	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF= 2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120360
143	Structural and radiation shielding properties of BaTiO3 ceramic with different concentrations of Bismuth and Ytterbium	2020	Ceramics International IF=3.830	Q1	https://doi.org/10.1016/j.ceramint.2020.08.055
144	Investigation of photon, neutron and proton shielding features of H3BO3–ZnO–Na2O–BaO glass system	2020	Nuclear Engineering and Technology IF=1.846	Q1	https://doi.org/10.1016/j.net.2020.07.035
145	Impact of Dy2O3 Substitution on the Physical, Structural and Optical Properties of Lithium–Aluminium–Borate Glass System	2020	Applied Sciences IF=2.474	Q2	https://doi.org/10.3390/app10228183
146	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Luminescence IF=1.45	Q2	https://doi.org/10.1002/bio.3761
147	Spin-polarized transmission across heterostructure based on an InAs/GaSb/InGaAs system: Effect of accelerating quantum wells	2020	Chemical physics letters IF=2.209	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0009261420307818
148	Magnetic field effect on spin-polarized transport in asymmetric multibarrier based on InAs/GaAs/GaSb systems	2020	Physica B IF=1.902	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0921452620304105
149	Spin-Dependent Tunneling of Holes in Heterostructures Based on GaMnAs Semiconductor: Effects of Temperature and Quantum Size	2020	Journal of superconductivity and novel magnetism IF=1.244	Q2	https://link.springer.com/article/10.1007/s10948-020-05463-9
150	Theoretical study of electronic properties of resonant tunneling diodes based on double and triple AlGaAs barriers	2020	Results in Physics IF=4.019	Q2	https://doi.org/10.1016/j.rinp.2020.103089

151	Eco-synthesis and characterization of titanium nanoparticles: Testing its cytotoxicity and antibacterial effects	2020	Green Processing and Synthesis IF=1.672	Q2	https://doi.org/10.1515/gps-2020-0045
152	Effects of Terbium Doping on Structural, Optical and Photocatalytic Properties of ZnO Nanopowder Prepared by Solid-State Reaction	2020	Journal of Inorganic and Organometallic Polymers and Materials IF=1.670	Q2	https://doi.org/10.1007/s10904-020-01761-w
153	Structural and optical characteristics of pure and 5% RE (Tb, Y and Eu) doped ZnO	2020	Nano-Structures & Nano-Objects	Q2	https://doi.org/10.1016/j.nanoso.2020.100551
154	Effect of Yttrium Substitution on Microstructural, Optical, and Photocatalytic Properties of ZnO Nanostructures	2020	Journal of Electronic Materials IF= 1.676	Q2	https://doi.org/10.1007/s11664-020-08274-9
155	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Luminescence IF=1.45	Q2	https://doi.org/10.1002/bio.3761
156	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
157	Investigation of photon, neutron and proton shielding features of H3BO3–ZnO–Na2O–BaO glass system	2020	Nuclear Engineering and Technology IF: 1.846	Q1	https://doi.org/10.1016/j.net.2020.07.035
158	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120360
159	Flux pinning mechanisms of (YBa2Cu3Oy-d) 1−x/(Dy2O3) x superconductors (x= 0.1 and 0.5 wt.%)	2020	Ceramics International IF= 3.64	Q1	https://doi.org/10.1016/j.ceramint.2020.11.007
160	Comparative study of thermal fluctuation induced conductivity in $YBa_2Cu_3O_{7-d}$ containing Nano-$Zn_{0.95}Mn_{0.05}O$ and Nano-Al_2O_3 particles	2020	Solid state sciences IF: 2.434	Q2	https://doi.org/10.1016/j.solidstatesciences.2020.106264
161	AC susceptibility investigation of YBCO superconductor added by carbon nanotubes	2020	Journal of Alloys and Compounds IF: 4.650	Q1	https://doi.org/10.1016/j.jallcom.2019.152150
162	Enhanced critical current density and flux pinning traits with Dy_2O_3 nanoparticles added to $YBa_2Cu_3O_{7-d}$ superconductor	2020	Journal of Alloys and Compounds IF: 4.650	Q1	https://doi.org/10.1016/j.jallcom.2020.157019
163	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Luminescence IF=1.45	Q2	https://doi.org/10.1002/bio.3761
167	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
168	Investigation of photon, neutron and proton shielding features of H3BO3–ZnO–Na2O–BaO glass system	2020	Nuclear Engineering and Technology IF: 1.846	Q1	https://doi.org/10.1016/j.net.2020.07.035

169	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120360
170	Enhanced UV Emission of GaN Nanowires Functionalized by Wider Band Gap Solution-Processed p-MnO Quantum Dots		ACS Applied Materials & Interfaces IF= 8.758	Q1	https://doi.org/10.1021/acsami.0c07029
171	The study of optical and thermoelectric properties of lead-free variant iodes (K/Rb) 2TiI6; Renewable energy	2020	Journal of Materials Research and Technology IF = 5.289	Q1	https://doi.org/10.1016/j.jallcom.2016.07.302
172	Probing of Optoelectronic and Transport Properties of Zinc Based ZnY2X4 (X= S, Se) Spinels for Renewable Energy	2020	ECS Journal of Solid State Science and Technology IF=1.55	Q3	https://iopscience.iop.org/article/10.1149/2162-8777/abbb70/meta
173	Dual coating strategy of CoS2@Co@C toward fast insertion/extraction anode material for sodium-ion batteries	2020	International Journal of Energy Research IF=3.74	Q1	https://doi.org/10.1002/er.6147
174	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120360
175	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Luminescence IF=1.45	Q2	https://doi.org/10.1002/bio.3761
176	The impact of barium oxide on physical, structural, optical, and shielding features of sodium zinc borate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
177	Investigation of photon, neutron and proton shielding features of H3BO3–ZnO–Na2O–BaO glass system	2020	Nuclear Engineering and Technology	Q1	https://doi.org/10.1016/j.net.2020.07.035
178	Activity concentrations of 226 Ra, 232 Th, 40 K, and 238 U in detergent powders and their potential radiation hazards	2020	Journal of Radiation Research and Applied Sciences	Q2	https://www.tandfonline.com/loi/trra20
179	Effect of InAs buffer layer thickness on physical properties of InAsBi heterostructures grown by MOCVD	2020	Journal of Crystal Growth IF=1.620	Q2	https://doi.org/10.1016/j.jcrysgro.2020.125881
180	Effects of Terbium Doping on Structural, Optical and Photocatalytic Properties of ZnO Nanopowder Prepared by Solid-State Reaction	2020	Journal of Inorganic and Organometallic Polymers and Materials IF=1.670	Q2	https://doi.org/10.1007/s10904-020-01761-w
181	Effect of Yttrium Substitution on Microstructural, Optical, and Photocatalytic Properties of ZnO Nanostructures	2020	Journal of Electronic Materials IF= 1.676	Q2	https://doi.org/10.1016/j.nanoso.2020.100551

182	Electrically Controlled Lasing in Supercooled Liquid Crystal Blue Phase I Microdroplets	2020	ACS Applied Electronic Materials		https://doi.org/10.1021/acsaelm.0c00279
183	Synthesis and study of physicochemical properties of relatively high birefringence liquid crystals: Tolane-type with symmetric alkoxy side groups	2020	Journal of Molecular Liquids IF=5.065	Q1	https://doi.org/10.1016/j.molliq.2020.113205
184	Validation of Messaâdi equation on viscosity-temperature dependence for some ternary liquid mixtures by statistical correlation analysis	2020	Physics and Chemistry of Liquids IF=0.603	Q4	https://doi.org/10.1080/00319104.2019.1625048
185	Well-posedness for Hardy-H\'enon parabolic equations with fractional Brownian noise	2020	arXiv	-	https://arxiv.org/abs/2006.08787v1
186	Modeling of the irradiation effect on some physicochemical properties of metoprolol tartrate for safe medical uses	2020	Scientific Reports IF= 4.5	Q1	https://doi.org/10.1038/s41598-019-56805-0
189	A Novel Equation Correlating the Rheological Properties of Some Commercial Tomato Ketchups	2020	Journal of Biochemical Technology Impact factor:	-	https://jbiochemtech.com/en/article/a-novel-equation-correlating-the-rheological-properties-of-some-commercial-tomato-ketchups
190	Hyperbolic Correlation between the Viscosity Arrhenius Parameters at Liquid Phase of Some Pure Newtonian Fluids and Their Normal Boiling Temperature	2020	Russian Journal of Physical Chemistry A (If 0.58)	Q4	https://doi.org/10.1134/S0036024420010239
191	Validation of Messaâdi equation on viscosity-temperature dependence for some ternary liquid mixtures by statistical correlation analysis.	2020	Physics and Chemistry of Liquids IF=1.707	Q3	https://doi.org/10.1080/00319104.2019.1625048
192	A survey of surface tension, molar volume and density for Sn-Ag-Cu-Bi-Sb quinary alloys as lead-free solders.	2020	Philosophical Magazine & Philosophical Magazine Letters IF=1.787	Q4	https://doi.org/10.1080/14786435.2019.1704090
193	Modeling of the irradiation effect on some physicochemical properties of metoprolol tartrate for safe medical uses	2020	Scientific Reports IF= 4.5	Q1	https://doi.org/10.1038/s41598-019-56805-0
194	Hyperbolic correlation between the viscosity Arrhenius parameters at liquid phase of some pure Newtonian fluids and their normal boiling temperature	2020	Russian Journal of Physical Chemistry A (If 0.58)	Q4	https://doi.org/10.1134/S0036024420010239
195	Chitosan-Based Materials for the Removal of Nickel Ions from Aqueous Solutions	2020	Russian Journal of Physical Chemistry A (If 0.58)	Q4	https://doi.org/10.1134/S0036024420040032
196	Investigation of Molecular Interaction in Benzene + Cyanex 923 Binary Mixtures at 298.15 K with Reduced Redlich–Kister Functions	2020	Russian Journal of Physical Chemistry A (If 0.58)	Q4	https://doi.org/10.1134/S0036024419130077

197	A simplified model correlating the excess surface tension for Bi-Cu and Bi-Sb binary alloys using the concept of reduced Redlich-Kister function at different temperatures	2020	Surfaces and Interfaces IF=3.724	Q1	(https://doi.org/10.1016/j.surfin.2020.100643
198	An extended Casson equation for rheological properties of soybean oil at different temperatures and atmospheric pressure	2020	Journal of Biochemical Technology	-	https://jbiochemtech.com/en/article/an-extended-casson-equation-for-rheological-properties-of-soybean-oil-at-different-temperatures-and-atmospheric-pressure https://jbiochemtech.com/en/issue/vol-11-no-3-2020
199	Thermodynamic Parameters Modeling of Viscous Flow Activation in Ethylene Glycol-Water Fluid Systems	2020	Iranian Journal of Chemistry and Chemical Engineering	-	https://dx.doi.org/10.30492/ijcce.2020.34707
200	A Novel Equation Correlating the Rheological Properties of Some Commercial Tomato Ketchups	2020	Journal of Biochemical Technology Impact factor:	-	https://jbiochemtech.com/en/article/a-novel-equation-correlating-the-rheological-properties-of-some-commercial-tomato-ketchups
201	On the modeling of the S-shaped thermodynamic and transport behavior against the atomic number Z of some trivalent f-element ions in aqueous solutions at 298 K and prediction for completion of the periodic table of chemical elements	2020	Russian Journal of Physical Chemistry A (IF= 0.58)	Q4	https://doi.org/10.1134/S0036024420100210
202	Antibacterial activity of In-doped ZnO nanoparticles	2020	Inorganic Chemistry Communications IF=1.790	Q3	https://doi.org/10.1016/j.inoche.2020.108281
203	Magnetic behavior of ferrite-polymer composites for hyperthermia applications	2020	Journal of Materials Science: Materials in Electronics IF=2.19	Q1	https://doi.org/10.1007/s10854-020-04493-2
204	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass	2020	Journal of Non-Crystalline Solids IF=2.929	Q3	https://doi.org/10.1016/j.jnoncrysol.2020.120360
205	The impact of barium oxide on physical, structural, optical, and shielding features of sodium zinc borate glass	2020	Journal of Inorganic and Organometallic Polymers and Materials IF= 2.929	Q3	https://doi.org/10.1016/j.jnoncrysol.2020.120090

206	Effects of CdS Nanoparticles on the Physical Properties of T-CdS Nanocomposite Materials	2020	Journal of Inorganic and Organometallic Polymers and Materials IF2.929	Q3	https://doi.org/10.1007/s10904-020-01722-3
207	Influence of divalent metals (Zn, Cu and Co) on the synthesis and magnetic properties of spinel ferrite nanopowders	2020	Journal of Materials Science Materials in Electronics IF=2.22	Q3	https://doi.org/10.1007/s10854-020-03354-2
208	Photocatalytic Activity, Microstructures and Luminescent Study of Ti-ZS:M Nano-composites Materials	2020	Journal of Inorganic and Organometallic Polymers and Material IF=1.941	Q3	https://doi.org/10.1007/s10904-020-01598-3
209	Dosimetric features and kinetic parameters of a glass system dosimeter	2020	Journal of Luminescence IF=1.855	Q3	https://doi.org/10.1002/bio.3761
210	Role of 5d Orbital of Re in Ferromagnetism and Thermoelectric Characteristics of Cs2ReCl/Br6 Double Perovskites: A Density Functional Theory Study	2020	The European Physical Journal Plus IF = 2.6	Q2	10.1140/epjp/s13360-020-00743-8
211	Eco-synthesis and characterization of titanium nanoparticles: Testing its cytotoxicity and antibacterial effects	2020	Green Processing and Synthesis IF=1.672	Q2	https://doi.org/10.1515/gps-2020-0045
212	First principle study of structural, electronic, ferromagnetic, mechanical and thermoelectric properties of ZnMn2X4 (X= S and Se) Spinels	2020	Physica Scripta IF = 2.15	Q2	https://doi.org/10.1088/1402-4896/abb20b
213	Probing of mechanical behaviour, quantum mechanism of spin exchange and magnetism of SnV2O4 and SnCr2O4 spinel oxides by DFT	2020	philosophical magazine IF=1.632	Q2	https://doi.org/10.1080/14786435.2020.1781277
214	Theoretical investigations of optoelectronic and thermoelectric properties of the XIn2O4 (X = Mg, Zn, Cd) spinel oxides	2020	Journal of Physics and Chemistry of Solids IF = 2.78	Q2	https://doi.org/10.1016/j.jpcs.2020.109481
215	Probing the electronic structure and magnetism in Ni doped ZnTe: A DFT modeling and experiment	2020	Journal of Alloys and Compounds IF = 4.2	Q1	https://doi.org/10.1016/j.jallcom.2020.155176
216	First principle analysis of electronic, optical and thermoelectric characteristics of XBiO3 (X = Al, Ga, In) perovskites	2020	Opto-electronic Review IF = 1.5	Q2	https://doi.org/10.24425/opelre.2020.132497
217	Physical characteristics of CdZrO3 perovskite at different pressure for optoelectronic application	2020	Journal of Materials Research and Technology IF = 5.289	Q1	https://doi.org/10.1016/j.jmrt.2020.06.086

218	Study of anion replacement effect on SrCd2X2 (X = P, As, Sb, Bi) compounds by FPLAPW+lo	2020	Materials Science in Semiconductor Processing IF=3.085	Q2	https://doi.org/10.1016/j.mssp.2020.105290
219	Anion-cation replacement effect in lead free tin based variant perovskites	2020	Physica B: Condensed Matter IF=1.902	Q2	https://doi.org/10.1016/j.physb.2020.412345
220	Anion replacement effect on BaCd2X2 (X = P, As, Sb, Bi) compounds: A first principles study	2020	Journal of Solid State Chemistry IF = 2.2	Q2	https://doi.org/10.1016/j.jssc.2020.121589
221	Ab initio study of electronic, optical and thermoelectric character of intermetallic compounds XGa3 (X = Fe, Ru, Os)	2020	Optical and quantum electronics IF = 1.7	Q3	https://doi.org/10.1007/s11082-020-02332-6
222	Physical properties of lead-free double perovskites A2SnI6 (A= Cs, Rb) using ab-initio calculations for solar cell applications	2020	Materials Science in Semiconductor Processing IF=3.085	Q2	https://doi.org/10.1016/j.mssp.2020.105313
223	Magnetoelectronic properties of ferromagnetic compounds Rb2TaZ6 (Z = Cl, Br) for possible spintronic applications	2020	Int. Journal of Quantum Chemistry IF=1.747	Q2	https://doi.org/10.1002/qua.26357
224	Exploration of magnesium based MgX2O4 (X = Rh, Bi) spinels for thermoelectric applications using density functional theory (DFT)	2020	Journal of Materials Research and Technology IF = 5.289	Q1	https://doi.org/10.1016/j.jmrt.2020.04.016
225	Optoelectronic properties of PbSe monolayers from first principles	2020	Applied Surface Science IF = 5.15	Q1	https://doi.org/10.1016/j.apsusc.2020.146521
226	Effect of Different Waste Coal Ash (WCA) Loading to Dynamic Load Application of Chloroprene Rubber	2020	Malaysian Journal on Composites Science & Manufacturing IF=2.023		https://orcid.org/0000-0001-6164-0464
227	Magnetic and optical properties of synthesized ZnO–ZnFe2O4 nanocomposites via calcined Zn–Fe layered double hydroxide	2020	Optical Materials IF=2.023	Q1	https://doi.org/10.1016/j.optmat.2020.110179
228	An Approach Towards Optimization Appraisal of Thermal Conductivity of Magnetic Thermoplastic Elastomeric Nanocomposites Using Response Surface Methodology	2020	Polymers IF= 3.426	Q1	https://doi.org/10.3390/polym12092030
229	The Effect of PVP Concentration on Particle Size, Morphological and Optical Properties of Cassiterite Nanoparticles	2020	IEEE access IF=3.745	Q1	10.1109/ACCESS.2020.2993689
230	Morphological, structural and optical behaviour of PVA capped binary (NiO) 0.5 (Cr2O3) 0.5 nanoparticles produced via single step based thermal technique	2020	Results in Physics IF=3.280	Q1	https://doi.org/10.1016/j.rinp.2020.103059

231	The Influence of Adopted Chemical Modification Route on the Thermal and Mechanical Properties of Alumina Nanoparticles-Impregnated Thermoplastic Natural Rubber Nanocomposite	2020	Arabian Journal for Science and Engineering IF=1.474	Q2	https://doi.org/10.1007/s13369-019-04279-7
232	Probing of mechanical, optical and thermoelectric characteristics of double perovskites Cs2GeCl/Br6 by DFT method	2020	Materials Science in Semiconductor Processing IF=2.72	Q2	https://doi.org/10.1016/j.mssp.2020.105009
233	The study of optical and thermoelectric properties of lead-free variant iodes $(K/Rb)_2TiI6$; Renewable energy	2020	Journal of Materials Research and Technology IF = 2.09	Q1	https://doi.org/10.1016/j.jallcom.2016.07.302
234	The Impact of Barium Oxide on Physical, Structural, Optical, and Shielding Features of Sodium Zinc Borate Glass	2020	Journal of non-crystalline Solid IF=2.929	Q1	https://doi.org/10.1016/j.jnoncrysol.2020.120090
235	First-principles calculation to investigate half metallic ferromagnetism and thermoelectric properties of Ca0.75Ti0.25X (X = S, Se) alloys	2020	Chemical Physics IF = 1.82	Q2	https://doi.org/10.1016/j.chemphys.2020.110690
236	The study of optical and thermoelectric properties of lead-free variant iodes (K/Rb) 2TiI6; Renewable energy	2020	Journal of Materials Research and Technology IF = 2.09	Q1	https://doi.org/10.1016/j.jallcom.2016.07.302
237	Probing of Optoelectronic and Transport Properties of Zinc Based ZnY2X4 (X= S, Se) Spinels for Renewable Energy	2020	ECS Journal of Solid State Science and Technology IF=1.55	Q3	https://iopscience.iop.org/article/10.1149/2162-8777/abbb70/meta
238	Piezotronic AlGaN nanowire Schottky junctions grown on a metal substrate	2020	AIP Advances IF=1.337		https://doi.org/10.1063/5.0008112
239	Exploring the potential of lead-chalcogenide monolayers for room-temperature thermoelectric applications	2020	Ceramic International IF = 3.5	Q1	https://doi.org/10.1016/j.ceramint.2020.09.183
240	Structural and electrical properties of Ba-substituted spinel ferrites	2020	Materials Science in Semiconductor Processing IF=2.72	Q2	https://doi.org/10.1016/j.mssp.2020.105488
241	Characterization of sol gel Zn1-xCaxO thin layers deposited on p-Si substrate by spin-coating method	2020	Optical Materials IF=2.779	Q2	https://doi.org/10.1016/j.optmat.2020.110519
242	Study of Critical Magnetic Behaviour in Nanocrystalline La 0.65 Ce 0.05 Sr 0.3 Mn 1− x Cu x O 3 (x= 0, x= 0.05 and x= 0.15) Prepared by Pechini Method	2020	Journal of Superconductivity and Novel Magnetism IF=1.244	Q3	https://doi.org/10.1007/s10948-020-05568-1